RASK EC 3353 . H58 no.16 pt. 2





BY ERNEST E. T. SETON, OF CARBERRY.

572038

"In treating of the historic evidence of | and October-the fire months-has its prairie fires, I begin by claiming that they have always been the work of man. Lightning, the only other admissible agent, will be precluded when the manner of the burning is considered. For fires invariably take place either in early spring or in late fall, seasons when lightning is very rarely seen. But, admitting the occurrence of an electric discharge which has fired the grass, it must still be remembered that one such would go but a very little way towards clearing the plains; there is little doubt that it must be kindled a great many times, as will be admitted on noting the usual course of a fire. From its starting point it spreads in la cone-shape down the wind, until at length it is stopped by a change of wind, a shower of rain or a body of water; and as rain is abundant and lakes very numerous at these seasons, it is probable that not many fires extend further than a few miles. If in its course a fire meets a small body of water, it often overlaps it at each end, and then turning on it is again united, but leaves a great triangle of unburnt prairie in the lee of the lake, and this piece being now surrounded by a guard of burnt prairie, is safe for the year, and in it the saplings of last year's growth have gained so much. last Since then the fires are so often stopped, and since the fires are so ready to spring up when protected, it is evident that the

THE PROTECTING BARRIERS. nollow which contains water during May and more tree covered as one approaches

clump of trees; every river and lake is fringed with them, and the land is nearly . all covered by dense forests in the north country behind the great guardian chain of rivers and lakes, among which are the Saskatchewan and Lakes Winnipeg and Manitoba. Sand is a protector, because. the grass growing on it is too scant to carry the fire. Hence, in such places as the sandhills, there are as many trees as the almost sterile ground will bear. The seeds of these trees are carried all over and are ready to spring up into new woods; and if a piece of prairie, almost anywhere, be protected for two consecutive years it will then be found covered with a growth of poplars and willows, as may be seen this year about Carberry, for the smooth prairie escaped the fire last year and this spring, and is now dotted all over with tiny saplings. Therefore I conclude that but for the fire the whole country would be covered with bush. And there is proof that at one time these plains were well timbered. Far out on the open plains sticks may be picked up and wood inearthed, all charred, and showing where once were trees. Almost every settler of a few years experience can recall how yearly the neighboring bush was burnt smaller and smaller until there chanced to be a very dry spring or fall, the dead leaves were as dry as the grass, and the fire ran through, killing every tree, and in fires must be kindled many times each a year or two more the same agent levelled year to keep the plains swept. Therefore, and reduced all the prairie. If then the I think that no hesitation need be felt in land was once timbered, and we can form concluding these conflagrations to be the an idea of its rate of clearance, we should work, not of lightning, nor of spontane- be able to form an approximate idea of ous combustion, but of man for ages back. the time that the fire makers have been Next I would call attention to the fact at work. But first must be decided the that those parts of the country which are probable starting point. It seems to me protected from fire are covered with bush. that this must have been where now the effects of the burning are most apparent are of two kinds, water and sand. Every and seem oldest. The country is more



the Saskatchewan; therefore the fire sent termination of the open country and sume that

THE FIRST CLEARING BY FIRE tered the country by way of the Missouri nual average of less than a mile. rie in Hind's time. Also since the pre- and ten centuries ago.

makers could not have come thence; nor beginning of the unbroken aspen (or popfrom the east or west for similar reasons lar) woods is about between forty and in different degrees. But on the U.S. fifty miles north-east of Rapid City. The boundary, about half way across to the rate of clearance agrees with that of the mountains, is a great plain which has been so often and thoroughly burnt that of the previous instance. Prof. Hind, speaking of the change wrought in twenty years, not a vestige of wood is to be found. As you leave this going east, west or north, 'hummuck' of aspens and clumps of partiserub and small timber begin to appear, ally burned willows were the only remainwhile the plains begin to show signs of more recent fire action. From this I asbetween Boss Creek and the Assiniboine." This tract I find to be about 17 or 18 was in the direction of the boundary miles across, in a line radiating from the south of Regina, i. e. the fire makers en- fire centre. This also would give an anvalley. And from this part to the ex- few instances are all I have so far been tremes of the fire clearings the distance is able to gather and are far too slight and about five hundred miles. So far we have inconclusive to afford a good basis for a found almost no evidence whereby to theory, yet the reading of this may lead gauge the rate of clearing. At one time to the discovery or collection of other 1 averaged the annual encroachments and facts, which may help to shed light on the thought about half a mile was near the matter. It must be remarked that what mark, but the extent of a fire is too fickles little evidence has been collected points a large for methoderical colorests. a base for mathematical calculation. I to an occupation of this land by men, for find in Prof. Hind's work, vol. 1, p. 318, a period of not more than one thousand the following referring to the journey and not less than five hundred years, and from Fort Ellice to Moose Mountain, a the conclusion loses none of its value distance of fifty miles: "An old Indian, from its coincidence with theories founded born in this part of the country, told us on totally different grounds. In short, that he remembered the time when the then, I have brought forward reasons for whole of the country through which we believing that: This was once a wooded had passed, since leaving Fort Ellice, was one continuous forest, broken only by two or three intervals of barren ground." tween five and ten centuries of such fires This would give a clearance of fifty miles; to effect the present clearance, and their in fifty or sixty years. The Rev. Mr. starting point must have been in the diffect, missionary, testified that forty years rection of the Coteau du Missouri. ago the Rapid City trail was through a Therefore, this country was first populated forces of large worders. This halps to do the migration up the Missouri Velley for the country was first populated. forest of large poplars. This helps to de-by migration up the Missouri Valley from termine the N. E. boundary of the prai-the Southern Central Plains, between five





	•	

